

# MEMORANDUM

Agenda Item No. 11(A)(1)

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**TO:** Honorable Chairman Esteban L. Bovo, Jr.  
and Members, Board of County Commissioners

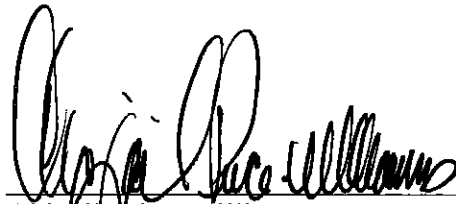
**DATE:** January 23, 2018

**FROM:** Abigail Price-Williams  
County Attorney

**SUBJECT:** Resolution directing the County Mayor to utilize "cool roofs" for all new construction, roofing maintenance, and re-roofing work where the surface material is replaced on county owned properties

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The accompanying resolution was prepared and placed on the agenda at the request of Prime Sponsor Commissioner Daniella Levine Cava.

  
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Abigail Price-Williams  
County Attorney

APW/lmp



# MEMORANDUM

(Revised)

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and Members, Board of County Commissioners

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Please note any items checked.

- ☐ "3-Day Rule" for committees applicable if raised
- ☐ 6 weeks required between first reading and public hearing
- ☐ 4 weeks notification to municipal officials required prior to public hearing
- ☐ Decreases revenues or increases expenditures without balancing budget
- ☐ Budget required
- ☐ Statement of fiscal impact required
- ☐ Statement of social equity required
- ☐ Ordinance creating a new board requires detailed County Mayor's report for public hearing
- ☐ No committee review
- ☐ Applicable legislation requires more than a majority vote (i.e., 2/3's \_\_\_\_, 3/5's \_\_\_\_, unanimous \_\_\_\_ ) to approve
- ☐ Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required

Approved \_\_\_\_\_ Mayor  
Veto \_\_\_\_\_  
Override \_\_\_\_\_

Agenda Item No. 11(A)(1)  
1-23-18

RESOLUTION NO. \_\_\_\_\_

RESOLUTION DIRECTING THE COUNTY MAYOR OR  
DESIGNEE TO UTILIZE "COOL ROOFS" FOR ALL NEW  
CONSTRUCTION, ROOFING MAINTENANCE, AND RE-  
ROOFING WORK WHERE THE SURFACE MATERIAL IS  
REPLACED ON COUNTY OWNED PROPERTIES

**WHEREAS**, according to an annual report prepared by the National Oceanic and Atmospheric Administration (NOAA) and the National Aeronautics and Space Administration (NASA), 2016 was the warmest year on record globally, marking the third year in a row in which a new record was set for global average surface temperatures; and

**WHEREAS**, as temperatures rise, so too does the need for, and cost of, energy for cooling and electricity; and

**WHEREAS**, rooftops have become a large contributor to excessive heat issues, with as many as 90 percent of roofs in the United States being poorly designed and built with dark, non-reflective, heat-absorbing materials; and

**WHEREAS**, as a result, rooftop temperatures can rise up to 90 degrees above the prevailing air temperature, with effects most felt in dense, populated areas such as cities; and

**WHEREAS**, "cool roofs" offer one of the most cost-effective and efficient solutions to this problem; and

**WHEREAS**, "cool roofs" are made of a highly reflective coating, a sheet covering, or highly reflective tiles or shingles that help to keep roof temperatures down by reflecting the majority of the light striking the roof surface; and

**WHEREAS**, while standard or dark roofs can reach temperatures of 150 degrees or more on a summer's day, a "cool roof" under the same conditions could stay more than 50 degrees cooler and, consequently, help save energy and money by requiring and using less electricity and air conditioning; and

**WHEREAS**, a "cool roof" can benefit a building and its occupants by: helping to reduce energy costs by decreasing air conditioning demand; improving indoor comfort for spaces that are not air conditioned, such as garages, porches, and covered patios; and decreasing roof temperatures, which may extend the service life of the roof itself; and

**WHEREAS**, beyond the building itself, "cool roofs" may also have the potential to offer other environmental benefits, such as: the possible reduction of local air temperatures when many buildings in a community together utilize "cool roof" designs; lower peak electricity demand in a community, which can help prevent power outages; and the reduction of power plant emissions, including carbon dioxide, sulfur dioxide, nitrous oxides, and mercury, by reducing cooling energy use in buildings; and

**WHEREAS**, "cool roofs" not only help save energy and lower associated cooling costs, but also may result in a cost savings through rebates and incentives, air conditioning equipment downsizing, and an extended roof lifetime; and

**WHEREAS**, this Board previously adopted R-1103-10 which directed that public and affordable housing include reflective roofing or green roofs; and

**WHEREAS**, to take advantage of the many cost saving and environmental benefits outlined above, this Board wishes for "cool roofs" to be used by Miami-Dade County on County owned properties, as more particularly set forth herein,

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA,** that this Board directs the County Mayor or designee to utilize "cool roofs" for all new construction, roofing maintenance, and re-roofing work where the surface material is replaced on County owned properties. Such roofing material shall be US EPA Energy Star Cool Roof Rating Council (ES-CRRC) Certified. The "cool roof" requirement shall apply to all facilities subject to the Sustainable Buildings Program set forth in article III, chapter 9 of the Miami-Dade County Code.

The Prime Sponsor of the foregoing resolution is Commissioner Daniella Levine Cava. It was offered by Commissioner \_\_\_\_\_, who moved its adoption. The motion was seconded by Commissioner \_\_\_\_\_ and upon being put to a vote, the vote was as follows:

Jean Monestime, Chairman	
Esteban L. Bovo, Jr., Vice Chairman	
Bruno A. Barreiro	Daniella Levine Cava
Jose "Pepe" Diaz	Audrey M. Edmonson
Sally A. Heyman	Barbara J. Jordan
Dennis C. Moss	Rebeca Sosa
Sen. Javier D. Souto	Xavier L. Suarez
Juan C. Zapata	

The Chairperson thereupon declared the resolution duly passed and adopted this 23<sup>rd</sup> day of January, 2018. This resolution shall become effective upon the earlier of (1) 10 days after the date of its adoption unless vetoed by the County Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this Resolution and the filing of this approval with the Clerk of the Board.

MIAMI-DADE COUNTY, FLORIDA  
BY ITS BOARD OF  
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

By: \_\_\_\_\_  
Deputy Clerk

Approved by County Attorney as  
to form and legal sufficiency.

James Eddie Kirtley  
Abbie Schwaderer Raurell

